

Applic. No. 10/680,380  
Amdt. dated February 28, 2007  
Reply to Office action of December 11, 2006

Claim Amendments

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (withdrawn-currently amended): A process for producing a seamless one-piece, structured metal foil having an interior hole, a predetermined, curved outer contour and an inner contour delimiting the hole, which comprises the following steps:

initially providing a smooth blank having an outer edge disposed substantially concentrically outside the outer contour to be produced and having an inner edge disposed substantially concentrically outside the inner contour to be produced; and

then imparting a structure to the smooth blank to form the metal foil by processing the smooth blank with an approximately uniform degree of deformation in an inner boundary region and an outer boundary region, the structure having radially running wave peaks and wave valleys extending from the inner contour to the outer contour, the wave peaks and the wave valleys having a wave height being constant in

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radial direction and having a wave length increasing in radial direction.

Claim 2 (cancelled).

Claim 3 (withdrawn): The process according to claim 1, which further comprises carrying out the step of imparting the structure to cause a distance from the inner edge to the outer edge of the blank to approximately correspond to a distance from the outer contour to the inner contour of the metal foil.

Claims 4 and 5 (cancelled).

Claim 6 (withdrawn): The process according to claim 1, which further comprises constructing the inner contour and outer contour as well as the inner edge and outer edge to be round and mutually concentric.

Claim 7 (withdrawn): The process according to claim 1, which further comprises carrying out the step of imparting the structure with a multi-stage tool only partially producing the structure at each stage.

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Claim 8 (withdrawn): The process according to claim 7, wherein the multi-stage tool is a multi-stage wave-stamping tool.

Claim 9 (withdrawn): The process according to claim 1, which further comprises:

providing the inner edge of the blank with a first periphery, providing the outer edge of the blank with a second periphery, providing the inner contour of the metal foil with a third periphery, and providing the outer contour of the metal foil with a fourth periphery;

constructing the first periphery and the second periphery to be respectively larger by a shortening factor than the third periphery and the fourth periphery; and

selecting the shortening factor as a function of the structure to be produced.

Claim 10 (withdrawn): The process according to claim 9, which further comprises carrying out the step of imparting the structure by providing a wave form with a wave height and a wave length, and setting the shortening factor to be between 1.1 and 1.6.

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Claim 11 (withdrawn): The process according to claim 10, which further comprises setting the shortening factor to be between 1.25 and 1.45.

Claim 12 (currently amended): A metal foil for a catalyst carrier body, comprising:

a seamless one-piece body having:

an interior with a hole formed therein;

an inner contour delimiting said hole;

an outer contour; and

a structure with ~~approximately~~ radially running formations wave peaks and wave valleys extending from said inner contour to said outer contour, said wave peaks and said wave valleys having a wave height being constant in radial direction and having a wave length increasing in radial direction.

Claims 13-15 (cancelled).

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Claim 16 (currently amended): The metal foil according to claim [[14]] 12, wherein said body has an inner boundary region and an outer boundary region, and said inner boundary region has more of said wave peaks and said wave valleys than said outer boundary region.

Claim 17 (original): The metal foil according to claim 12, wherein said body has a foil thickness of less than 0.065 mm.

Claim 18 (original): The metal foil according to claim 12, wherein said body has a foil thickness of between 0.015 mm and 0.03 mm.

Claim 19 (original): The metal foil according to claim 12, wherein said structure is constructed with a microstructure.

Claim 20 (original): The metal foil according to claim 12, wherein said body is substantially planar.

Claims 21-28 (cancelled).

Claim 29 (new). A configuration for a catalyst carrier body, comprising:

a seamless one-piece metal foil body having:

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an interior with a hole formed therein;

an inner contour delimiting said hole;

an outer contour; and

a structure with radially running wave peaks and wave valleys,  
said wave peaks and said wave valleys having a wave height  
being constant in radial direction and having a wave length  
increasing in radial direction.